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Directional Survey

Matador Resources

Eddy County, NM
Sec 31, T23S, R28E
Charlie Sweeney Fed Com #228H

Wellbore #1 30.015-44028

Design: Wellbore #1

QES Survey Report

02 November, 2017

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Charlie Sweeney Fed Com #228H
Project:	Eddy County, NM	**TVD Reference:**	Well @ 3128.5usft (Patterson #282)
Site:	Sec 31, T23S, R28E	**MD Reference:**	Well @ 3128.5usft (Patterson #282)
Well:	Charlie Sweeney Fed Com #228H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 5000.1 Single User Db

Project	Eddy County, NM		
Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Sec 31, T23S, R28E				
Site Position:		**Northing:**	456,419.00 usft	**Latitude:**	32° 15' 16.675 N
From:	Map	**Easting:**	566,100.00 usft	**Longitude:**	104° 7' 10.240 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.11 °

Well	Charlie Sweeney Fed Com #228H					
Well Position	**+N/-S**	0.0 usft	**Northing:**	456,419.00 usft	**Latitude:**	32° 15' 16.675 N
	+E/-W	0.0 usft	**Easting:**	566,100.00 usft	**Longitude:**	104° 7' 10.240 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,100.0 usft

Wellbore	Wellbore #1				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	10/6/2017	7.18	60.00	47,868.62153404

Design	Wellbore #1					
Audit Notes:						
Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**		0.0
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**		
	0.0	0.0	0.0	0.49		

Survey Program **Date** 11/2/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
77.0	2,323.0	Gyro (Wellbore #1)	Good_gyro	Good Gyro
2,374.0	10,614.0	MWD (Wellbore #1)	MWD default	MWD - Standard
10,687.0	15,247.0	QES MWD Suvreys (Wellbore #1)	MWD default	MWD - Standard

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
77.0	0.44	258.42	77.0	-0.1	-0.3	-0.1	0.57	0.57	0.00
169.0	0.90	229.69	169.0	-0.6	-1.2	-0.6	0.60	0.50	-31.23
263.0	1.35	221.94	263.0	-1.9	-2.5	-1.9	0.50	0.48	-8.24
354.0	1.44	226.53	353.9	-3.5	-4.0	-3.5	0.16	0.10	5.04
446.0	1.61	220.61	445.9	-5.3	-5.7	-5.3	0.25	0.18	-6.43
538.0	1.46	228.94	537.9	-7.0	-7.4	-7.1	0.29	-0.16	9.05
630.0	0.21	325.18	629.9	-7.6	-8.4	-7.7	1.63	-1.36	104.61
722.0	0.61	291.65	721.9	-7.3	-9.0	-7.4	0.49	0.43	-36.45

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Design:	Wellbore #1	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
815.0	0.99	269.42	814.9	-7.1	-10.2	-7.2	0.52	0.41	-23.90
909.0	1.17	257.11	908.8	-7.4	-12.0	-7.5	0.31	0.19	-13.10
1,004.0	1.30	143.54	1,003.8	-8.5	-12.3	-8.6	2.18	0.14	-119.55
1,098.0	2.93	131.13	1,097.8	-10.9	-9.8	-11.0	1.79	1.73	-13.20
1,192.0	3.48	126.00	1,191.6	-14.1	-5.7	-14.2	0.66	0.59	-5.46
1,286.0	2.69	126.62	1,285.5	-17.1	-1.6	-17.2	0.84	-0.84	0.66
1,381.0	2.23	125.73	1,380.4	-19.6	1.6	-19.5	0.49	-0.48	-0.94
1,475.0	3.05	120.66	1,474.3	-21.9	5.3	-21.8	0.91	0.87	-5.39
1,569.0	4.75	118.55	1,568.1	-25.0	10.8	-24.9	1.81	1.81	-2.24
1,663.0	5.17	117.61	1,661.7	-28.9	18.0	-28.7	0.46	0.45	-1.00
1,757.0	4.82	119.49	1,755.4	-32.8	25.2	-32.5	0.41	-0.37	2.00
1,852.0	4.18	127.70	1,850.1	-36.8	31.4	-36.6	0.95	-0.67	8.64
1,946.0	4.29	109.64	1,943.8	-40.1	37.4	-39.8	1.42	0.12	-19.21
2,040.0	5.23	110.93	2,037.5	-42.8	44.8	-42.4	1.01	1.00	1.37
2,134.0	3.94	118.07	2,131.2	-45.9	51.6	-45.4	1.50	-1.37	7.60
2,229.0	3.85	125.80	2,226.0	-49.3	57.1	-48.8	0.56	-0.09	8.14
2,323.0	2.50	142.61	2,319.8	-52.8	60.9	-52.2	1.73	-1.44	17.88
2,374.0	1.99	155.64	2,370.8	-54.4	61.9	-53.9	1.41	-1.00	25.55
2,473.0	1.83	154.77	2,469.7	-57.4	63.3	-56.9	0.16	-0.16	-0.88
2,568.0	2.41	146.63	2,564.7	-60.5	65.0	-59.9	0.69	0.61	-8.57
2,662.0	2.46	140.07	2,658.6	-63.7	67.4	-63.1	0.30	0.05	-6.98
2,757.0	3.42	136.68	2,753.5	-67.3	70.7	-66.7	1.03	1.01	-3.57
2,850.0	3.57	136.98	2,846.3	-71.4	74.6	-70.8	0.16	0.16	0.32
2,943.0	3.46	132.15	2,939.1	-75.4	78.6	-74.8	0.34	-0.12	-5.19
3,038.0	3.23	126.10	3,033.9	-78.9	82.9	-78.2	0.44	-0.24	-6.37
3,131.0	3.05	131.79	3,126.8	-82.1	86.9	-81.4	0.39	-0.19	6.12
3,225.0	2.58	132.15	3,220.7	-85.2	90.3	-84.4	0.50	-0.50	0.38
3,319.0	3.24	126.56	3,314.6	-88.2	94.0	-87.4	0.76	0.70	-5.95
3,412.0	3.08	122.12	3,407.4	-91.1	98.2	-90.3	0.31	-0.17	-4.77
3,505.0	3.94	125.56	3,500.3	-94.3	102.9	-93.4	0.95	0.92	3.70
3,599.0	4.17	129.95	3,594.0	-98.4	108.2	-97.4	0.41	0.24	4.67
3,693.0	3.82	131.05	3,687.8	-102.6	113.2	-101.7	0.38	-0.37	1.17
3,787.0	3.52	132.60	3,781.6	-106.6	117.7	-105.6	0.34	-0.32	1.65
3,880.0	2.95	133.26	3,874.5	-110.2	121.5	-109.2	0.61	-0.61	0.71
3,974.0	3.02	135.10	3,968.3	-113.6	125.0	-112.5	0.13	0.07	1.96
4,067.0	2.83	138.97	4,061.2	-117.1	128.2	-116.0	0.29	-0.20	4.16
4,161.0	3.63	133.30	4,155.1	-120.9	131.9	-119.7	0.92	0.85	-6.03
4,255.0	4.10	133.63	4,248.8	-125.2	136.5	-124.1	0.50	0.50	0.35
4,349.0	3.87	133.65	4,342.6	-129.7	141.3	-128.5	0.24	-0.24	0.02
4,443.0	3.76	135.36	4,436.4	-134.1	145.7	-132.9	0.17	-0.12	1.82
4,538.0	3.30	141.78	4,531.2	-138.5	149.6	-137.2	0.64	-0.48	6.76
4,632.0	3.08	141.96	4,625.1	-142.6	152.8	-141.3	0.23	-0.23	0.19
4,726.0	2.40	143.08	4,719.0	-146.2	155.6	-144.8	0.73	-0.72	1.19

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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,820.0	1.87	151.22	4,812.9	-149.1	157.5	-147.7	0.65	-0.56	8.66
4,915.0	1.44	150.13	4,907.9	-151.5	158.8	-150.1	0.45	-0.45	-1.15
5,009.0	1.62	157.31	5,001.8	-153.7	159.9	-152.4	0.28	0.19	7.64
5,103.0	1.39	159.91	5,095.8	-156.0	160.8	-154.6	0.26	-0.24	2.77
5,197.0	1.15	167.92	5,189.8	-158.0	161.4	-156.6	0.32	-0.26	8.52
5,291.0	0.98	155.78	5,283.8	-159.7	162.0	-158.3	0.30	-0.18	-12.91
5,385.0	1.08	143.23	5,377.7	-161.1	162.8	-159.7	0.26	0.11	-13.35
5,479.0	1.18	149.35	5,471.7	-162.7	163.8	-161.3	0.17	0.11	6.51
5,573.0	0.42	202.07	5,565.7	-163.8	164.2	-162.4	1.05	-0.81	56.09
5,667.0	0.66	304.32	5,659.7	-163.8	163.6	-162.4	0.91	0.26	108.78
5,760.0	0.81	298.50	5,752.7	-163.2	162.6	-161.8	0.18	0.16	-6.26
5,854.0	0.48	266.36	5,846.7	-162.9	161.6	-161.5	0.51	-0.35	-34.19
5,948.0	0.56	182.80	5,940.7	-163.4	161.2	-162.0	0.74	0.09	-88.89
6,041.0	0.90	216.64	6,033.7	-164.4	160.8	-163.1	0.58	0.37	36.39
6,135.0	1.09	188.26	6,127.7	-165.9	160.2	-164.5	0.55	0.20	-30.19
6,229.0	0.76	321.50	6,221.7	-166.3	159.7	-164.9	1.81	-0.35	141.74
6,324.0	0.85	334.72	6,316.7	-165.2	159.0	-163.8	0.22	0.09	13.92
6,417.0	0.76	312.81	6,409.7	-164.1	158.2	-162.8	0.34	-0.10	-23.56
6,512.0	0.95	334.83	6,504.6	-163.0	157.4	-161.7	0.40	0.20	23.18
6,606.0	2.09	333.29	6,598.6	-160.8	156.3	-159.4	1.21	1.21	-1.64
6,701.0	1.22	27.40	6,693.6	-158.3	156.0	-157.0	1.78	-0.92	56.96
6,795.0	0.93	31.23	6,787.6	-156.8	156.9	-155.4	0.32	-0.31	4.07
6,889.0	1.20	97.28	6,881.5	-156.3	158.2	-154.9	1.26	0.29	70.27
6,983.0	1.26	117.19	6,975.5	-156.9	160.1	-155.5	0.46	0.06	21.18
7,076.0	1.15	142.70	7,068.5	-158.1	161.6	-156.7	0.58	-0.12	27.43
7,170.0	0.83	143.38	7,162.5	-159.4	162.6	-158.0	0.34	-0.34	0.72
7,265.0	0.27	112.41	7,257.5	-160.0	163.2	-158.6	0.65	-0.59	-32.60
7,359.0	0.20	93.40	7,351.5	-160.1	163.6	-158.7	0.11	-0.07	-20.22
7,451.0	0.79	123.16	7,443.5	-160.4	164.3	-159.0	0.68	0.64	32.35
7,545.0	1.12	70.55	7,537.5	-160.5	165.7	-159.1	0.95	0.35	-55.97
7,639.0	1.11	125.03	7,631.5	-160.7	167.3	-159.3	1.09	-0.01	57.96
7,733.0	1.64	192.94	7,725.4	-162.5	167.7	-161.1	1.70	0.56	72.24
7,827.0	0.85	193.51	7,819.4	-164.5	167.3	-163.1	0.84	-0.84	0.61
7,920.0	1.05	333.72	7,912.4	-164.4	166.7	-163.0	1.92	0.22	150.76
8,013.0	1.46	336.57	8,005.4	-162.6	165.9	-161.2	0.45	0.44	3.06
8,107.0	0.80	290.91	8,099.4	-161.3	164.8	-159.8	1.14	-0.70	-48.57
8,201.0	1.21	240.59	8,193.3	-161.5	163.3	-160.1	0.99	0.44	-53.53
8,294.0	0.48	315.98	8,286.3	-161.7	162.2	-160.3	1.27	-0.78	81.06
8,389.0	1.24	303.72	8,381.3	-160.9	161.1	-159.5	0.82	0.80	-12.91
8,483.0	1.19	11.47	8,475.3	-159.3	160.4	-158.0	1.44	-0.05	72.07
8,576.0	0.67	87.14	8,568.3	-158.4	161.1	-157.0	1.30	-0.56	81.37
8,670.0	1.24	152.45	8,662.3	-159.2	162.2	-157.8	1.21	0.61	69.48
8,764.0	0.44	78.05	8,756.3	-160.1	163.0	-158.7	1.28	-0.85	-79.15

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8,858.0	0.34	62.36	8,850.3	-159.9	163.6	-158.5	0.15	-0.11	-16.69
8,951.0	0.34	220.30	8,943.3	-159.9	163.7	-158.5	0.72	0.00	169.83
9,044.0	0.83	231.51	9,036.3	-160.6	162.9	-159.2	0.54	0.53	12.05
9,138.0	0.11	252.55	9,130.3	-161.0	162.3	-159.6	0.77	-0.77	22.38
9,231.0	0.45	9.27	9,223.3	-160.7	162.3	-159.3	0.55	0.37	125.51
9,325.0	0.44	263.02	9,317.3	-160.4	162.0	-159.0	0.76	-0.01	-113.03
9,418.0	0.60	222.84	9,410.3	-160.8	161.3	-159.4	0.42	0.17	-43.20
9,512.0	0.59	246.72	9,504.3	-161.3	160.5	-159.9	0.26	-0.01	25.40
9,606.0	0.60	235.98	9,598.3	-161.8	159.7	-160.4	0.12	0.01	-11.43
9,700.0	0.65	194.39	9,692.2	-162.6	159.1	-161.2	0.47	0.05	-44.24
9,794.0	1.06	204.54	9,786.2	-163.9	158.7	-162.5	0.46	0.44	10.80
9,831.0	1.22	194.09	9,823.2	-164.6	158.4	-163.2	0.71	0.43	-28.24
9,924.0	5.63	358.29	9,916.1	-161.0	158.0	-159.6	7.32	4.74	176.56
10,017.0	17.54	357.44	10,007.0	-142.3	157.3	-141.0	12.81	12.81	-0.91
10,112.0	25.90	356.71	10,095.2	-107.3	155.4	-105.9	8.80	8.80	-0.77
10,206.0	38.69	0.83	10,174.5	-57.2	154.7	-55.9	13.80	13.61	4.38
10,299.0	46.50	357.76	10,242.9	5.7	153.8	7.0	8.69	8.40	-3.30
10,393.0	55.29	354.54	10,302.2	78.4	148.8	79.6	9.72	9.35	-3.43
330'HL Crossed @ 10469.7' MD / 10344.3' TVD									
10,469.7	58.09	355.46	10,344.3	142.2	143.2	143.4	3.78	3.65	1.20
10,487.0	58.72	355.66	10,353.4	156.9	142.0	158.1	3.78	3.65	1.15
10,583.0	60.99	359.36	10,401.6	239.8	138.5	241.0	4.09	2.36	3.85
MWD Tie-In @ 10614.0' MD / 10416.2' TVD									
10,614.0	62.87	2.40	10,416.2	267.2	138.9	268.3	10.57	6.06	9.81
10,687.0	62.80	2.60	10,449.5	332.1	141.7	333.3	0.26	-0.10	0.27
10,719.0	65.20	3.50	10,463.5	360.8	143.3	362.0	7.91	7.50	2.81
10,750.0	70.40	4.00	10,475.2	389.4	145.1	390.6	16.84	16.77	1.61
10,782.0	76.60	2.40	10,484.3	420.0	146.8	421.3	19.96	19.38	-5.00
10,814.0	82.50	0.80	10,490.1	451.5	147.7	452.7	19.08	18.44	-5.00
10,845.0	86.30	359.70	10,493.2	482.3	147.9	483.6	12.76	12.26	-3.55
10,876.0	89.20	359.90	10,494.4	513.3	147.7	514.5	9.38	9.35	0.65
10,970.0	92.50	359.20	10,493.0	607.3	147.0	608.5	3.59	3.51	-0.74
11,064.0	92.00	0.70	10,489.3	701.2	146.9	702.4	1.68	-0.53	1.60
11,158.0	91.60	359.70	10,486.3	795.1	147.3	796.4	1.15	-0.43	-1.06
11,252.0	89.80	358.40	10,485.2	889.1	145.7	890.3	2.36	-1.91	-1.38
11,347.0	93.20	359.90	10,482.7	984.0	144.3	985.2	3.91	3.58	1.58
11,441.0	94.90	359.40	10,476.1	1,077.8	143.7	1,079.0	1.88	1.81	-0.53
11,535.0	95.30	359.20	10,467.7	1,171.4	142.6	1,172.6	0.48	0.43	-0.21
11,629.0	94.10	0.70	10,460.0	1,265.1	142.5	1,266.3	2.04	-1.28	1.60
11,724.0	91.70	3.00	10,455.2	1,359.9	145.6	1,361.1	3.50	-2.53	2.42
11,819.0	87.70	4.40	10,455.7	1,454.7	151.7	1,455.9	4.46	-4.21	1.47
11,913.0	86.20	4.30	10,460.7	1,548.3	158.8	1,549.6	1.60	-1.60	-0.11
12,008.0	84.60	1.80	10,468.3	1,642.8	163.8	1,644.2	3.12	-1.68	-2.63
12,102.0	85.90	0.00	10,476.1	1,736.5	165.3	1,737.9	2.36	1.38	-1.91

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Charlie Sweeney Fed Com #228H
Project:	Eddy County, NM	**TVD Reference:**	Well @ 3128.5usft (Patterson #282)
Site:	Sec 31, T23S, R28E	**MD Reference:**	Well @ 3128.5usft (Patterson #282)
Well:	Charlie Sweeney Fed Com #228H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,197.0	87.50	358.90	10,481.6	1,831.3	164.4	1,832.7	2.04	1.68	-1.16
12,291.0	89.00	359.10	10,484.4	1,925.3	162.8	1,926.6	1.61	1.60	0.21
12,385.0	89.60	359.40	10,485.6	2,019.3	161.5	2,020.6	0.71	0.64	0.32
12,480.0	89.60	0.10	10,486.2	2,114.3	161.1	2,115.6	0.74	0.00	0.74
12,573.0	90.30	0.10	10,486.3	2,207.3	161.3	2,208.6	0.75	0.75	0.00
12,667.0	90.80	0.60	10,485.4	2,301.2	161.9	2,302.5	0.75	0.53	0.53
12,761.0	90.70	0.70	10,484.2	2,395.2	162.9	2,396.5	0.15	-0.11	0.11
12,855.0	89.90	0.40	10,483.7	2,489.2	163.8	2,490.5	0.91	-0.85	-0.32
12,949.0	89.60	0.30	10,484.1	2,583.2	164.4	2,584.5	0.34	-0.32	-0.11
13,044.0	88.50	359.90	10,485.7	2,678.2	164.6	2,679.5	1.23	-1.16	-0.42
13,138.0	88.80	359.90	10,487.9	2,772.2	164.4	2,773.5	0.32	0.32	0.00
13,231.0	88.30	359.60	10,490.3	2,865.2	164.0	2,866.4	0.63	-0.54	-0.32
13,325.0	87.80	359.30	10,493.5	2,959.1	163.1	2,960.4	0.62	-0.53	-0.32
13,419.0	89.40	0.20	10,495.8	3,053.1	162.7	3,054.3	1.95	1.70	0.96
13,513.0	89.40	0.80	10,496.7	3,147.0	163.5	3,148.3	0.64	0.00	0.64
13,607.0	88.70	1.00	10,498.3	3,241.0	165.0	3,242.3	0.77	-0.74	0.21
13,701.0	91.30	1.60	10,498.3	3,335.0	167.1	3,336.3	2.84	2.77	0.64
13,795.0	91.40	2.20	10,496.1	3,428.9	170.2	3,430.2	0.65	0.11	0.64
13,890.0	91.20	2.40	10,493.9	3,523.8	174.0	3,525.2	0.30	-0.21	0.21
13,983.0	89.90	1.70	10,493.0	3,616.7	177.4	3,618.1	1.59	-1.40	-0.75
14,077.0	89.10	1.40	10,493.9	3,710.7	179.9	3,712.1	0.91	-0.85	-0.32
14,172.0	88.80	1.40	10,495.6	3,805.7	182.2	3,807.1	0.32	-0.32	0.00
14,266.0	89.80	2.00	10,496.7	3,899.6	185.0	3,901.1	1.24	1.06	0.64
14,359.0	88.00	2.10	10,498.5	3,992.5	188.3	3,994.0	1.94	-1.94	0.11
14,453.0	86.70	2.50	10,502.9	4,086.4	192.1	4,087.8	1.45	-1.38	0.43
14,547.0	86.40	2.20	10,508.5	4,180.1	196.0	4,181.6	0.45	-0.32	-0.32
14,641.0	86.10	2.10	10,514.7	4,273.8	199.5	4,275.4	0.34	-0.32	-0.11
14,757.0	87.40	1.70	10,521.3	4,389.6	203.3	4,391.2	1.17	1.12	-0.34
14,852.0	87.70	1.00	10,525.3	4,484.5	205.6	4,486.1	0.80	0.32	-0.74
14,946.0	88.10	1.80	10,528.8	4,578.4	207.8	4,580.0	0.95	0.43	0.85
15,040.0	92.80	3.70	10,528.0	4,672.2	212.4	4,673.9	5.39	5.00	2.02
15,134.0	92.80	2.70	10,523.4	4,766.0	217.6	4,767.7	1.06	0.00	-1.06
330'HL Crossed @ 15141.5' MD / 10523.1' TVD									
15,141.5	92.80	2.67	10,523.1	4,773.5	217.9	4,775.1	0.36	0.00	-0.36
15,190.0	92.80	2.50	10,520.7	4,821.9	220.1	4,823.6	0.36	0.00	-0.36
TD @ 15247.0' MD / 10517.9' TVD									
15,247.0	92.80	2.50	10,517.9	4,878.7	222.6	4,880.5	0.00	0.00	0.00

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Well:	Charlie Sweeney Fed Com #228H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 5000.1 Single User Db

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
10,469.7	10,344.3	142.2	143.2	330'HL Crossed @ 10469.7' MD / 10344.3' TVD
10,614.0	10,416.2	267.2	138.9	MWD Tie-in @ 10614.0' MD / 10416.2' TVD
15,141.5	10,523.1	4,773.5	217.9	330'HL Crossed @ 15141.5' MD / 10523.1' TVD
15,247.0	10,517.9	4,878.7	222.6	TD @ 15247.0' MD / 10517.9' TVD